



November 13, 2007

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
PO Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**Sand Wash Federal G-30-8-17**  
Sand Wash Unit  
UTU-76788X  
Surface Hole: T8S R17E, Section 30: Lot 3 (NW/4NW/4)  
568' FNL 665' FWL  
Bottom Hole: T8S R17E, Section 30: Lot 3 (NW/4NW/4)  
1324' FNL 1202' FWL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated October 26, 2007, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Sand Wash Federal Unit UTU-76788X. Newfield certifies that it is the Sand Wash Unit Operator and all lands within 460 feet of the entire directional well bore are within the Sand Wash Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland  
Land Associate

**RECEIVED**

**NOV 16 2007**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.  
UTU-74869

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
Sand Wash Unit

8. Lease Name and Well No.  
Sand Wash Federal G-30-8-17

9. API Well No.

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
Newfield Production Company

3a. Address  
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)  
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface NW/NW (Lot #3) 568' FNL 665' FWL  
At proposed prod. zone NW/NW 1324' FNL 1202' FWL  
Lot 3

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 30, T8S R17E

14. Distance in miles and direction from nearest town or post office\*  
Approximately 8.8 miles south of Myton, Utah

12. County or Parish  
Duchesne

13. State  
UT

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) Approx. 1202' f/lsa, 1202' f/unit

16. No. of Acres in lease  
1177.07

17. Spacing Unit dedicated to this well  
20 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. Approx. 1324'

19. Proposed Depth  
6550'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5380' GL

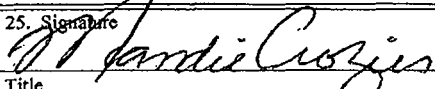
22. Approximate date work will start\*  
1st Quarter 2008

23. Estimated duration  
Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature  
  
Name (Printed/Typed)  
Mandie Crozier  
Date  
10/26/07  
Title  
Regulatory Specialist

Approved by (Signature)  
Name (Printed/Typed)  
Date  
Title  
Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED  
NOV 16 2007

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY

1910 Brass Cap

2524.51' (Measured) N89°49'E - 78.16 (G.L.O.)

N89°49'E G.L.O. (Basis of Bearings)

S89°49'54"E - 2647.76' (Meas.)

1910 Brass Cap

1910 Brass Cap

Top of Hole

568'

665'

200'

LOT 3

DRILLING WINDOW

1202'

Bottom of Hole

1324'

LOT 1

LOT 2

3319

LOT 4

LOT 5

LOT 7

30

LOT 6

LOT 9

1910 Brass Cap

LOT 10

LOT 8

3319

LOT 11

LOT 12

LOT 13

LOT 14

Brass Cap

NORTH - (G.L.O.)

N00°13'53"E - 2643.04' (Meas.)

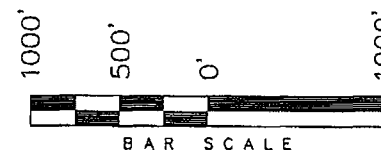
N00°18'27"E - 2615.58' (Meas.)

N00°10'12"E - 2646.39' (Meas.)

N0°03'W (G.L.O.)


WELL LOCATION:  
SANDWASH G-30-8-17  
ELEV. EXIST. GRADED GROUND = 5380'

N89°51'E - 78.20 (G.L.O.)



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 12235  
STATE OF UTAH

 = SECTION CORNERS LOCATED  
 BASIS OF ELEV;  
 U.S.G.S. 7-1/2 min QUAD (MYTON SE)

SANDWASH G-30-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 05' 40.52"  
LONGITUDE = 110° 03' 21.45"

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED:  
08-24-07

SURVEYED BY: T.H.

DATE DRAWN:  
09-17-07

DRAWN BY: F.T.M.

REVISED:

SCALE: 1" = 1000'

**NEWFIELD PRODUCTION COMPANY  
SAND WASH FEDERAL #G-30-8-17  
AT SURFACE: NW/NW (LOT #3) SECTION 30, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 2485'
Green River	2485'
Wasatch	6550'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 2485' – 6550' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
SAND WASH FEDERAL #G-30-8-17  
AT SURFACE: NW/NW (LOT #3) SECTION 30, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Sand Wash Federal #G-30-8-17 located in the NW 1/4 NW 1/4 (Lot #3), Section 30, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 7.4 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 340'  $\pm$  to the existing Tar Sands Federal 4-30-8-17 well lcoation.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Tar Sands Federal 4-30-8-17 well pad. See attached **Topographic Map "B"**.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the Tar Sands Federal 4-30-8-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Sand Wash Federal G-30-8-17. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-10136

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Sand Wash Federal G-30-8-17 will be drilled off of the existing Tar Sands Federal 4-30-8-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Mountain Plover:** If new construction or surface disturbing activities are scheduled to occur between May 1 and June 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. No new construction or surface disturbing activities will be allowed between March 15 and August 15 within a 0.5 mile radius of any documented mountain plover nest site.

**Reserve Pit Liner**

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrell Tail

*Elymus Elymoides*

5 lbs/acre

Shadscale  
Crested Wheatgrass

*Atriplex Confertifolia*  
*Agropyron Cristatum*

2 lbs/acre  
5 lbs/acre

**Details of the On-Site Inspection**

The proposed Sand Wash Federal G-30-8-17 was on-sited on 10/18/07. The following were present; Dave Allred (Newfield Production), Michael Cutler (Bureau of Land Management), and Brandon McDonald (Bureau of Land Management).. Weather conditions were clear and ground cover was 100% open.

**13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**  
**Representative**

Name: Dave Allred  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

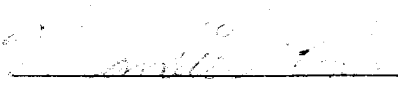
**Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #G-30-8-17 NW/NW Section 30, Township 8S, Range 17E: Lease UTU-74869 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

10/23/07

Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

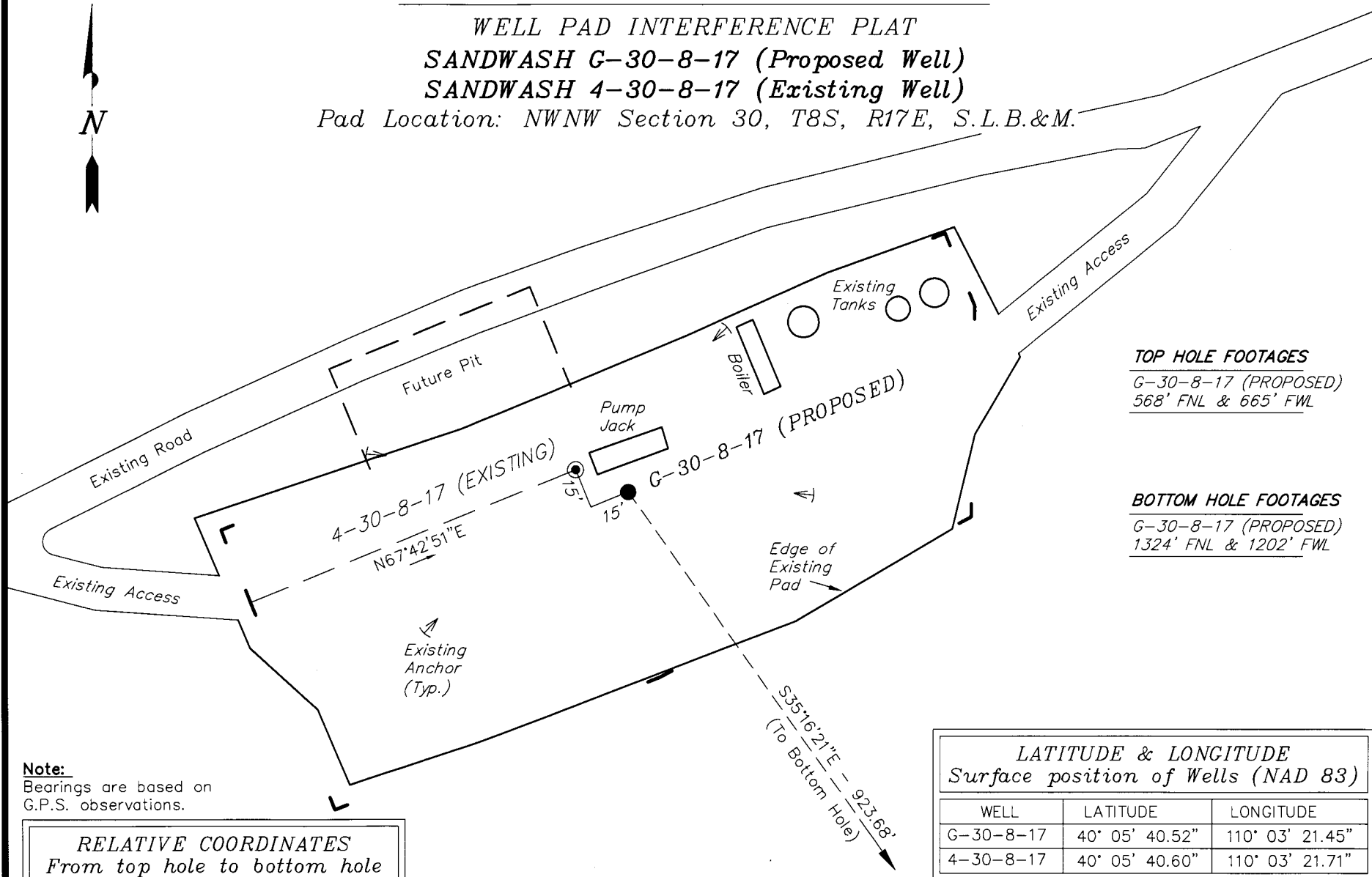
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

SANDWASH G-30-8-17 (Proposed Well)

SANDWASH 4-30-8-17 (Existing Well)

Pad Location: NWNW Section 30, T8S, R17E, S.L.B.&M.



### TOP HOLE FOOTAGES

G-30-8-17 (PROPOSED)  
568' FNL & 665' FWL

### BOTTOM HOLE FOOTAGES

G-30-8-17 (PROPOSED)  
1324' FNL & 1202' FWL

**Note:**  
Bearings are based on  
G.P.S. observations.

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
G-30-8-17	-754'	533'

SURVEYED BY: T.H. DATE SURVEYED: 08-24-07  
DRAWN BY: F.T.M. DATE DRAWN: 09-17-07  
SCALE: 1" = 50' REVISED:

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
G-30-8-17	40° 05' 40.52"	110° 03' 21.45"
4-30-8-17	40° 05' 40.60"	110° 03' 21.71"

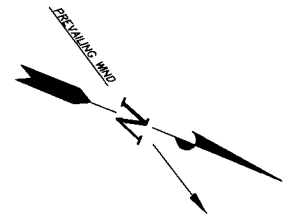
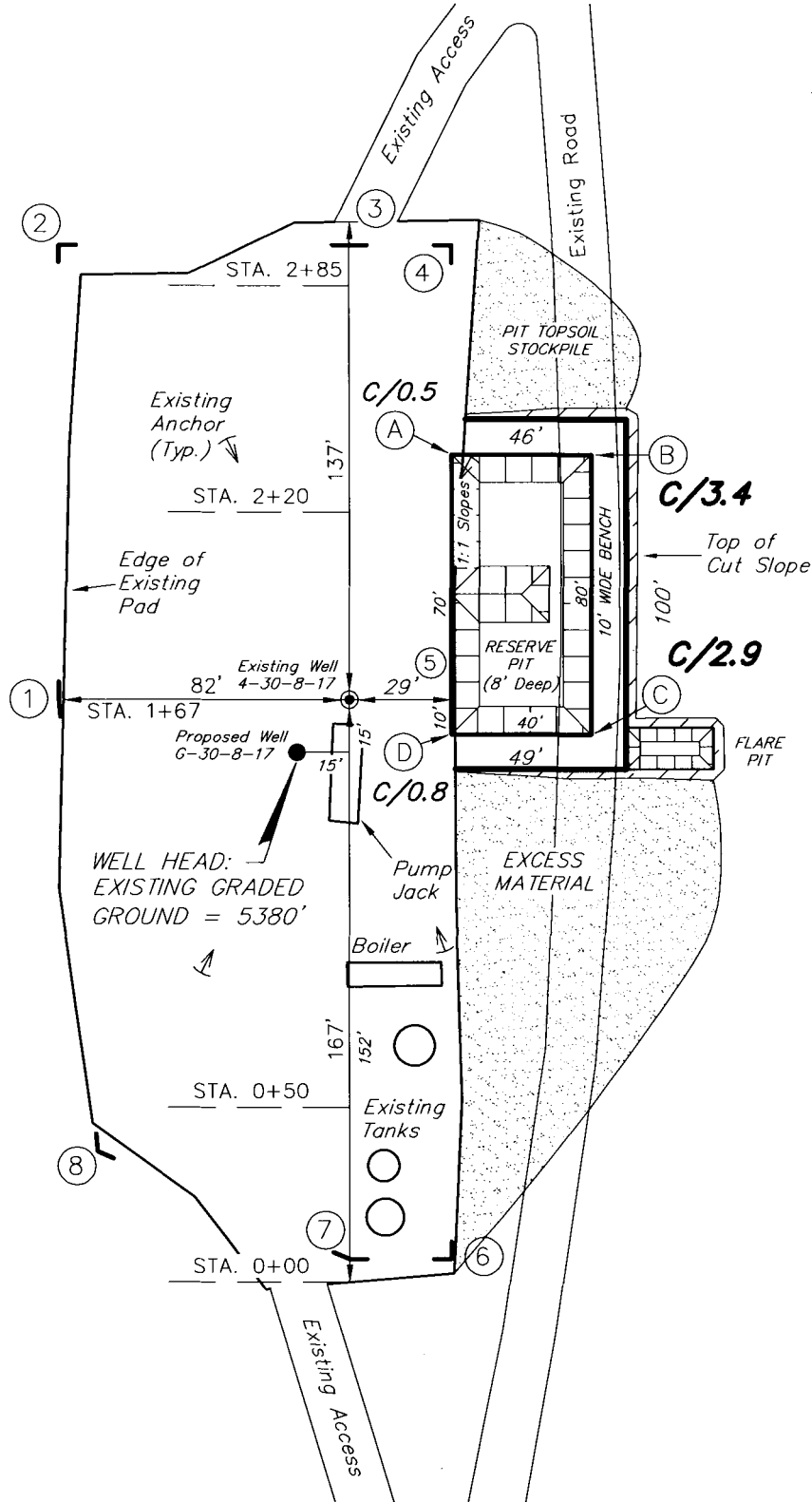
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Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

SANDWASH G-30-8-17 (Proposed Well)

SANDWASH 4-30-8-17 (Existing Well)

Pad Location: NWNW Section 30, T8S, R17E, S.L.B.&M.



Note:  
Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.H.	DATE SURVEYED: 08-24-07
DRAWN BY: F.T.M.	DATE DRAWN: 09-17-07
SCALE: 1" = 50'	REVISED:

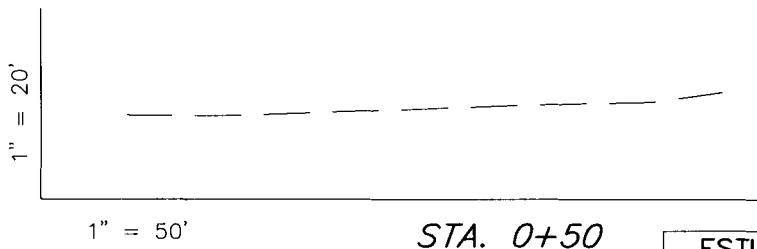
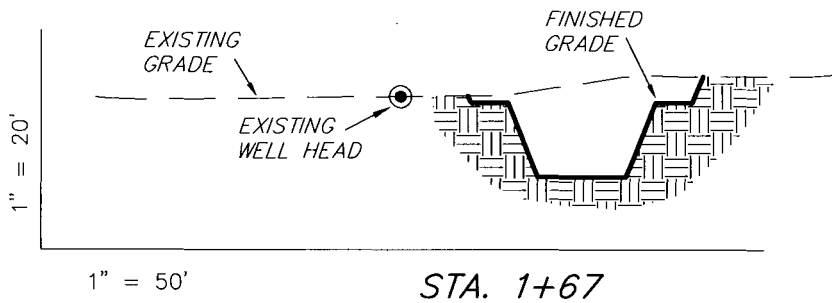
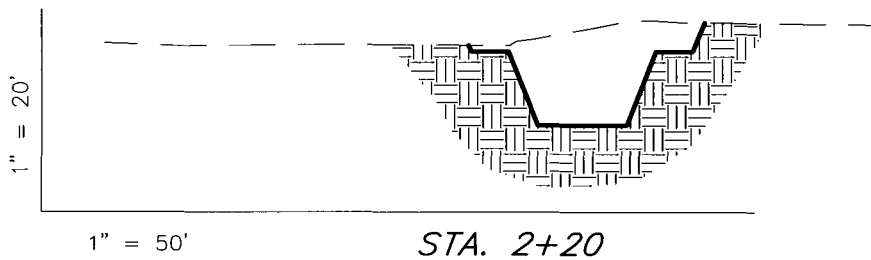
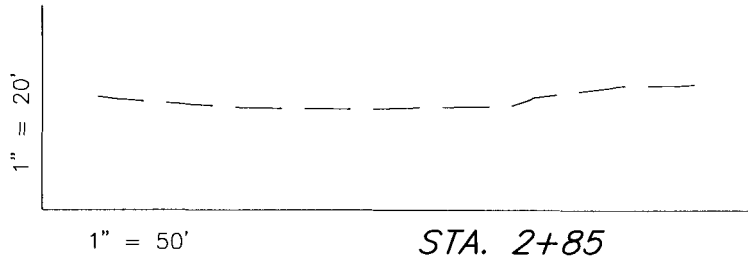
**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

SANDWASH G-30-8-17 (Proposed Well)

SANDWASH 4-30-8-17 (Existing Well)



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	540	0	Topsoil is not included in Pad Cut	540
PIT	640	0		640
TOTALS	1,180	0	130	1,180

SURVEYED BY: T.H.	DATE SURVEYED: 08-24-07
DRAWN BY: F.T.M.	DATE DRAWN: 09-17-07
SCALE: 1" = 50'	REVISED:

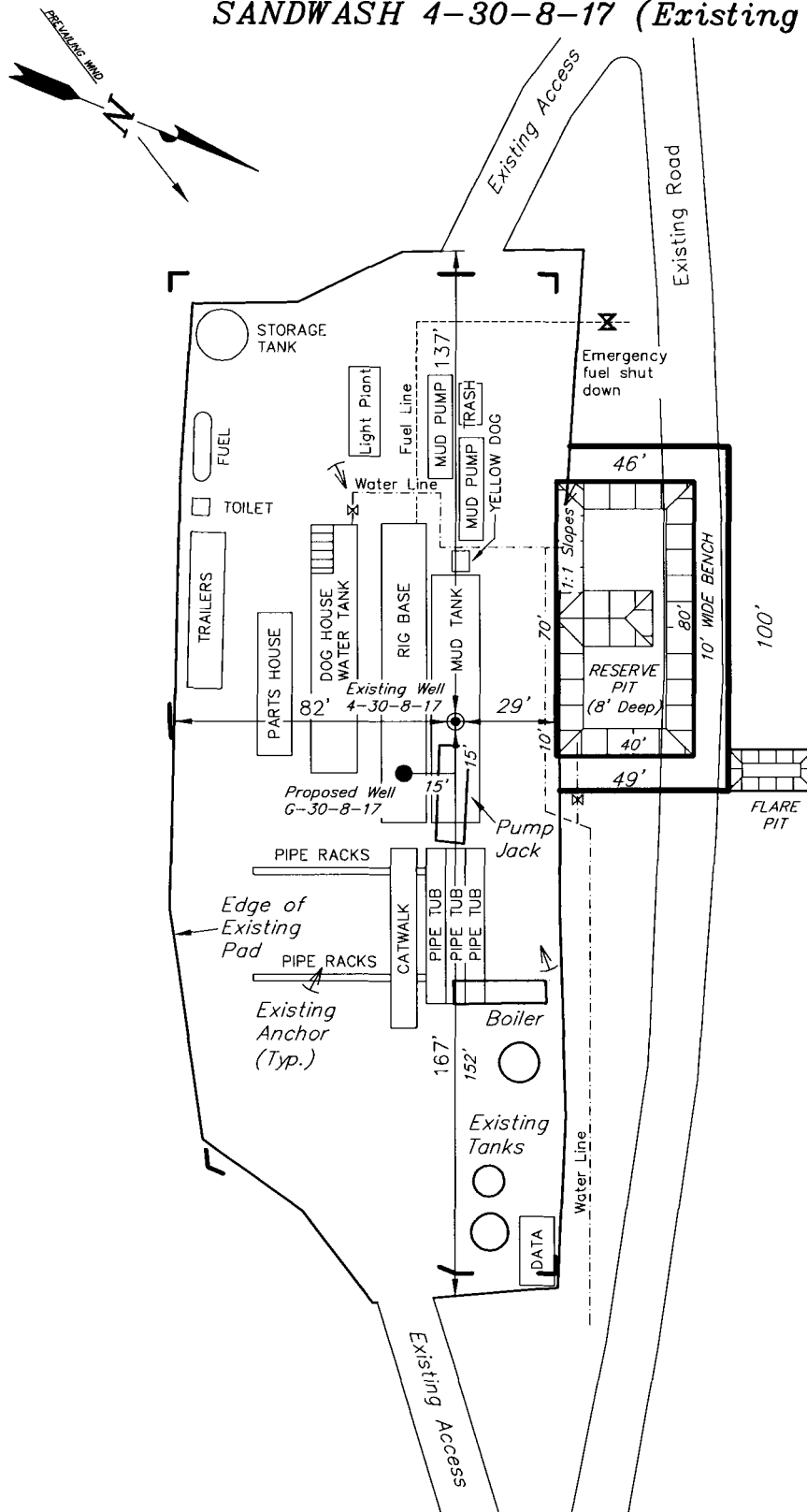
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180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

SANDWASH G-30-8-17 (Proposed Well)

SANDWASH 4-30-8-17 (Existing Well)



SURVEYED BY: T.H.	DATE SURVEYED: 08-24-07
DRAWN BY: F.T.M.	DATE DRAWN: 09-17-07
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# Newfield Production Company Proposed Site Facility Diagram

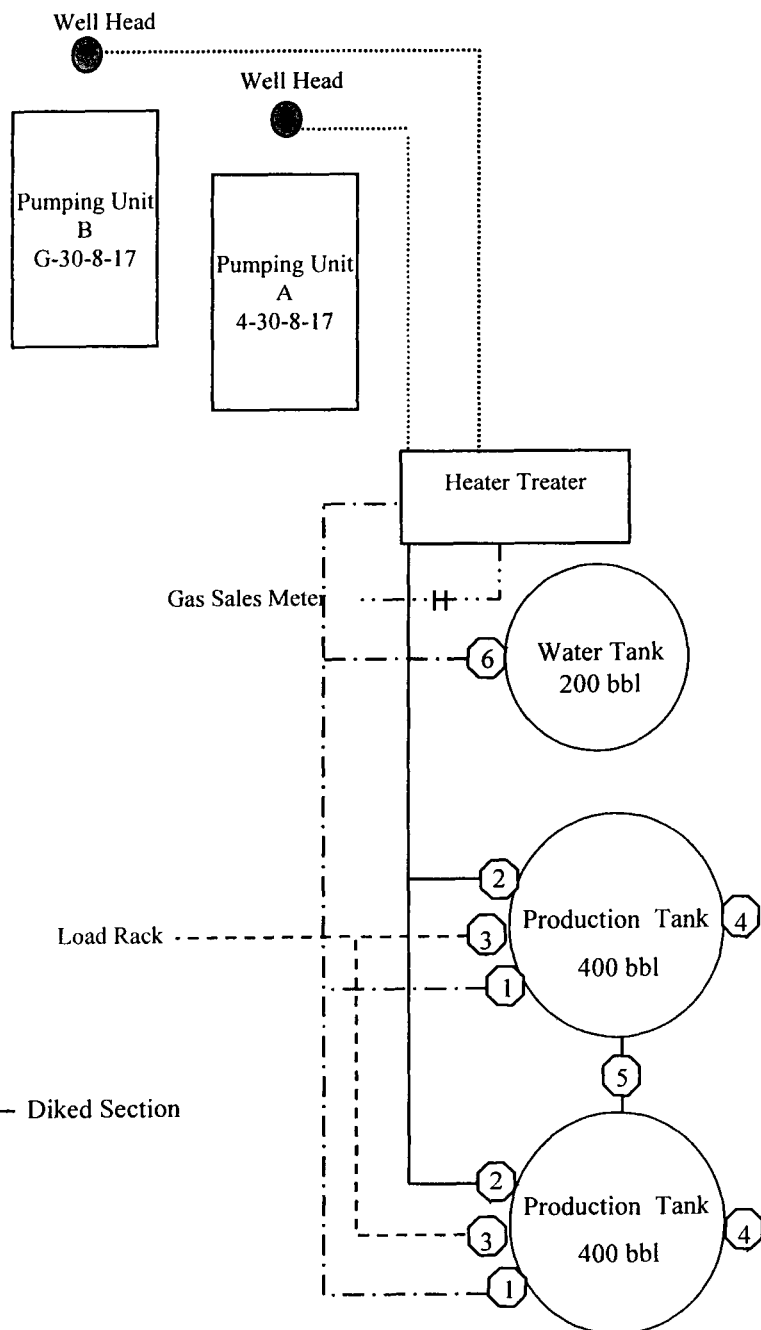
Sand Wash Federal G-30-8-17

From the 4-30-8-17 Location

NW/NW (LOT #3) Sec. 30 T8S, 17E

Duchesne County, Utah

UTU-74869



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

## Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

## Sales Phase:

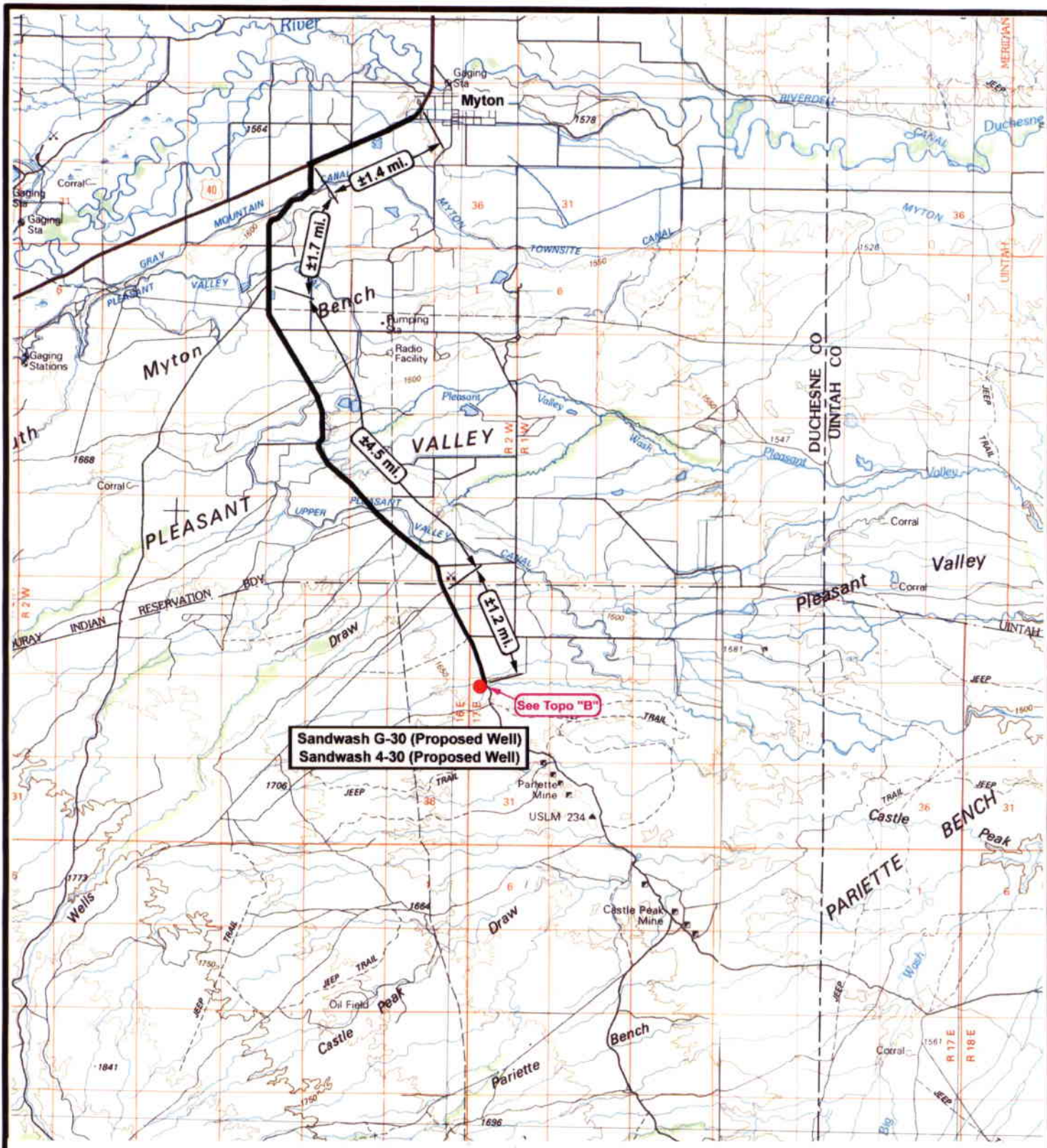
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

## Draining Phase:

- 1) Valves 1 and 6 open

## Legend

Emulsion Line	.....
Load Rack	-----
Water Line	-----
Gas Sales	-----
Oil Line	-----



**NEWFIELD**  
Exploration Company

**Sandwash G-30-8-17 (Proposed Well)**  
**Sandwash 4-30-8-17 (Proposed Well)**  
Pad Location: NWNW Sec. 30, T8S, R17E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501

180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000

DRAWN BY: mw

DATE: 10-04-2007

**Legend**

Existing Road

TOPOGRAPHIC MAP

**"A"**



Sandwash G-30 (Proposed Well)  
Sandwash 4-30 (Proposed Well)



**NEWFIELD**  
Exploration Company

**Sandwash G-30-8-17 (Proposed Well)**  
**Sandwash 4-30-8-17 (Proposed Well)**  
Pad Location: NWNW Sec. 30, T8S, R17E, S.L.B.&M.



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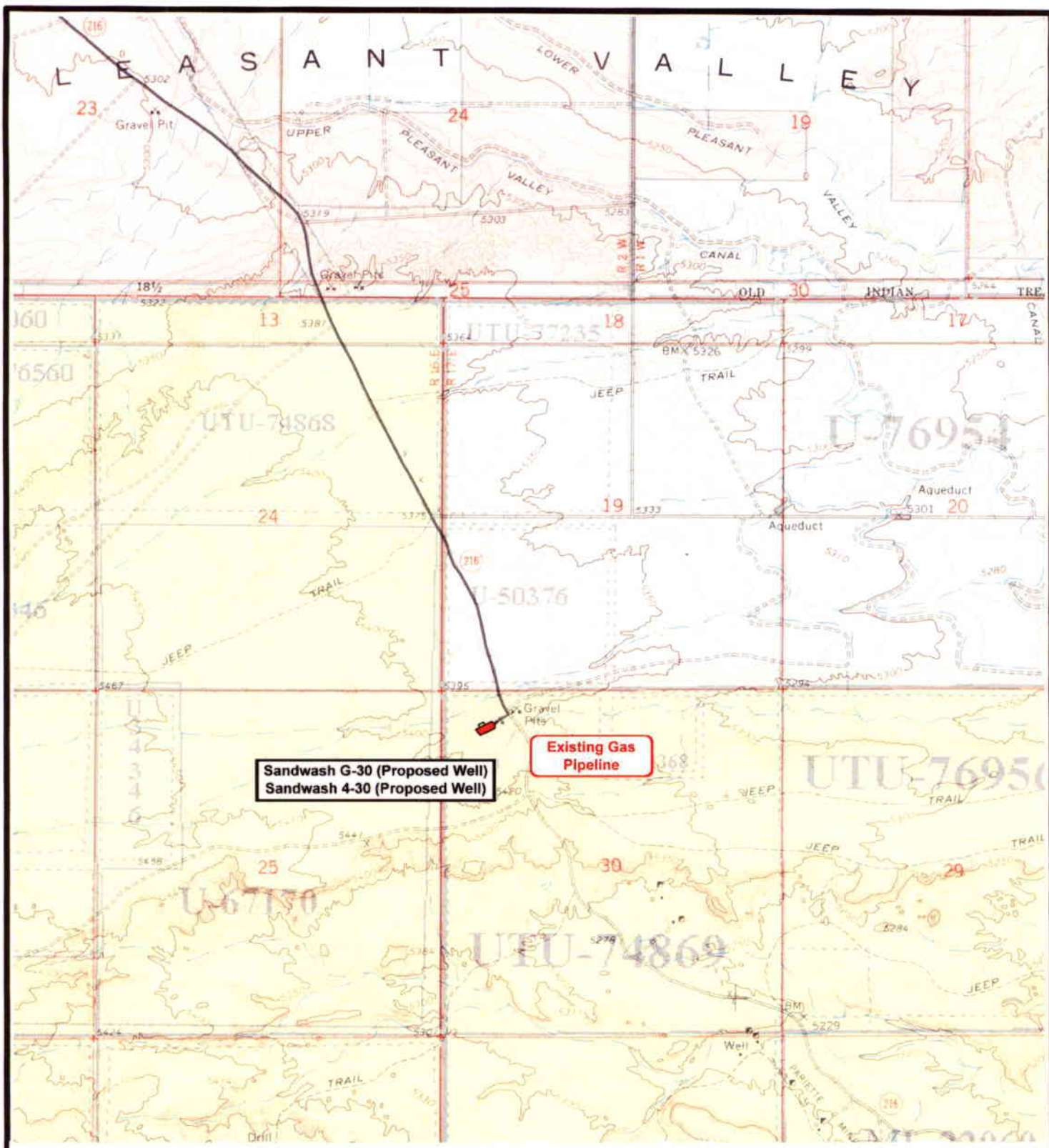
SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 10-04-2007

**Legend**

Existing Road

TOPOGRAPHIC MAP

**"B"**



**NEWFIELD**  
Exploration Company

**Sandwash G-30-8-17 (Proposed Well)**  
**Sandwash 4-30-8-17 (Proposed Well)**  
 Pad Location: NWNW Sec. 30, T8S, R17E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

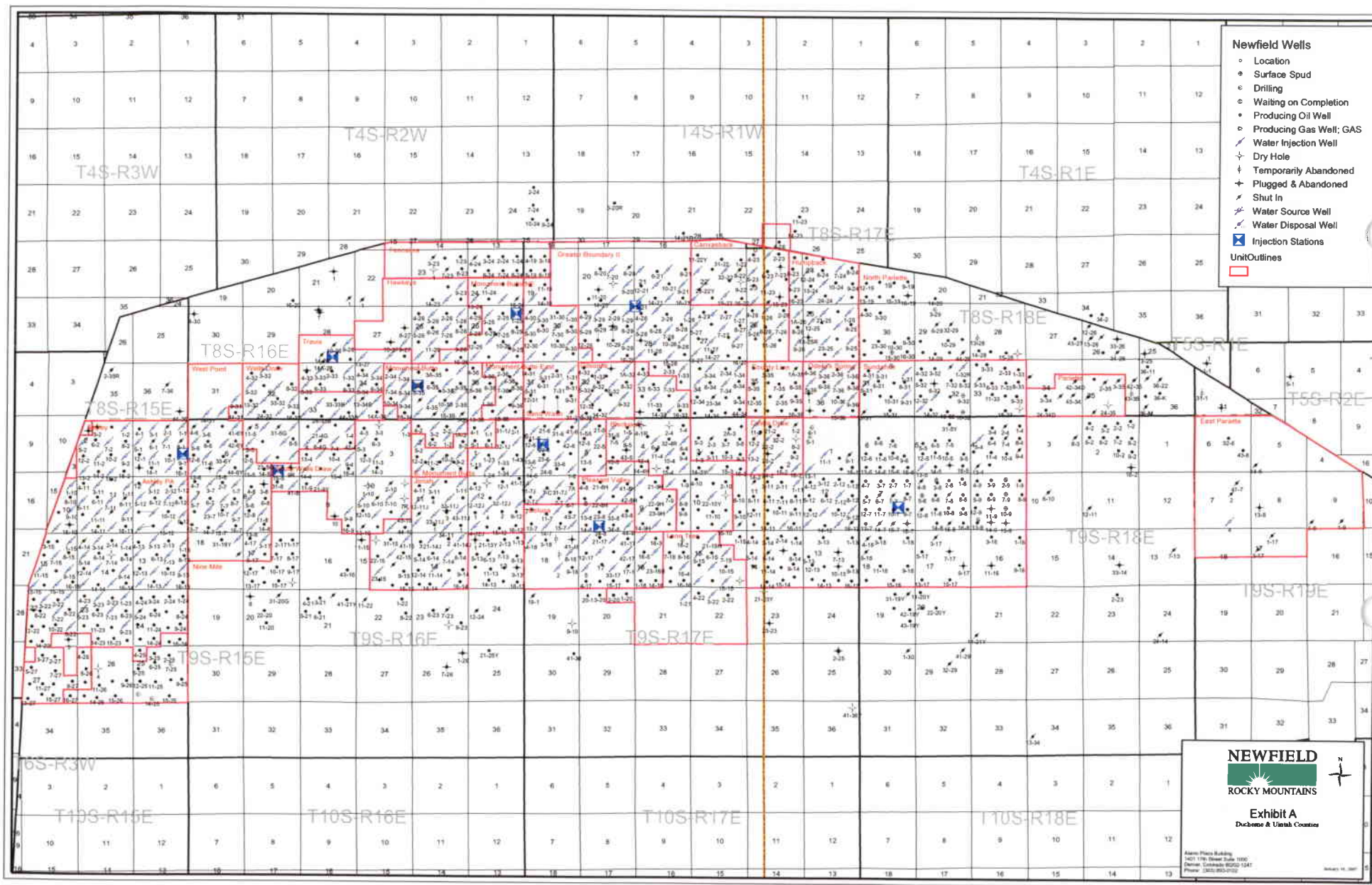
**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 10-04-2007**

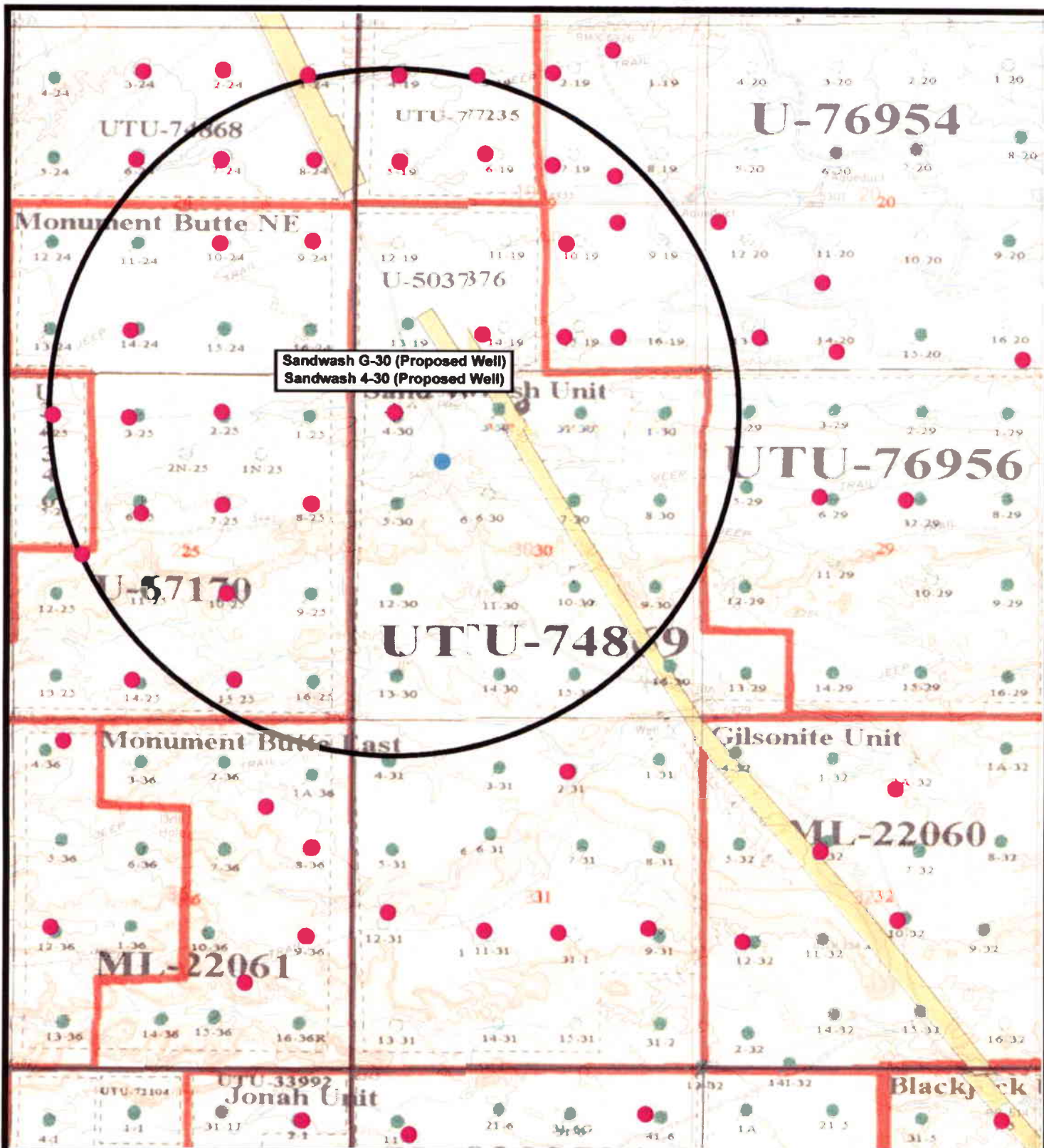
**Legend**

Roads

**TOPOGRAPHIC MAP**

**"C"**





Sandwash G-30 (Proposed Well)  
Sandwash 4-30 (Proposed Well)



**NEWFIELD**  
Exploration Company

**Sandwash G-30-8-17 (Proposed Well)**  
**Sandwash 4-30-8-17 (Proposed Well)**  
Pad Location: NWNW Sec. 30, T8S, R17E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 10-04-2007

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**

## 2-M SYSTEM

Blowout Prevention Equipment Systems

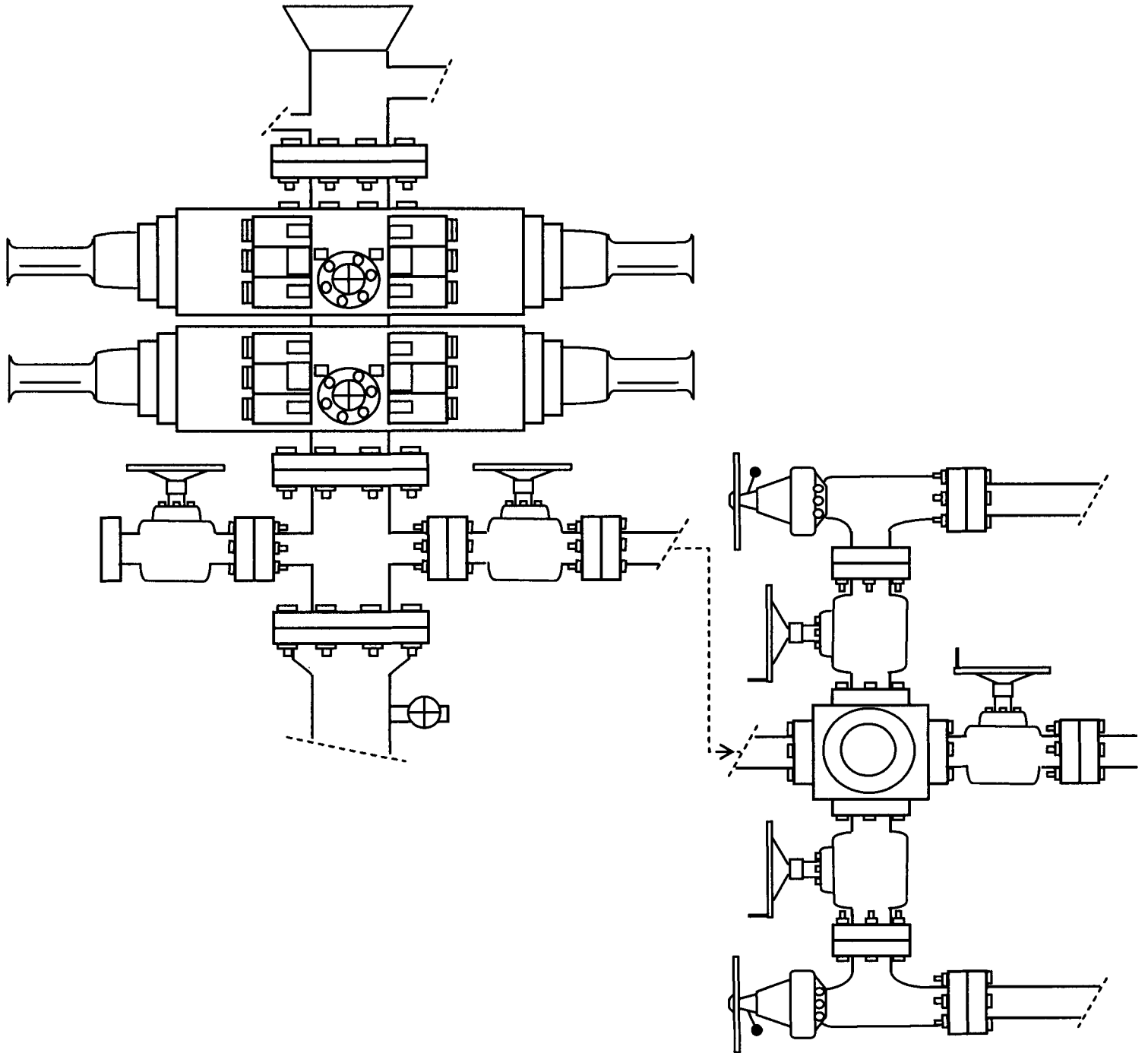


EXHIBIT C

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

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6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Sand Wash Unit

8. Lease Name and Well No.

Sand Wash Federal G-30-8-17

9. API Well No.

43-013-33817

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 30, T8S R17E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface NW/NW (Lot #3) 568' FNL 665' FWL

At proposed prod. zone NW/NW 1324' FNL 1202' FWL

14. Distance in miles and direction from nearest town or post office\*

Approximatley 8.8 miles south of Myton, Utah

15. Distance from proposed\*

location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1202' f/line, 1202' f/unit

16. No. of Acres in lease

1177.07

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.

Approx. 1324'

19. Proposed Depth

6550'

20. BLM/BIA Bond No. on file

WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5380' GL

22. Approximate date work will start\*

1st Quarter 2008

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Title

Regulatory Specialist

Name (Printed/Typed)

Mandie Crozier

Date

10/26/07

Approved by (Signature)

Title

Name (Printed/Typed)

BRADLEY G. HILL  
ON ENVIRONMENTAL MANAGER

Date

11-29-07

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

RECEIVED

NOV 20 2007

DIV. OF OIL, GAS & MINING

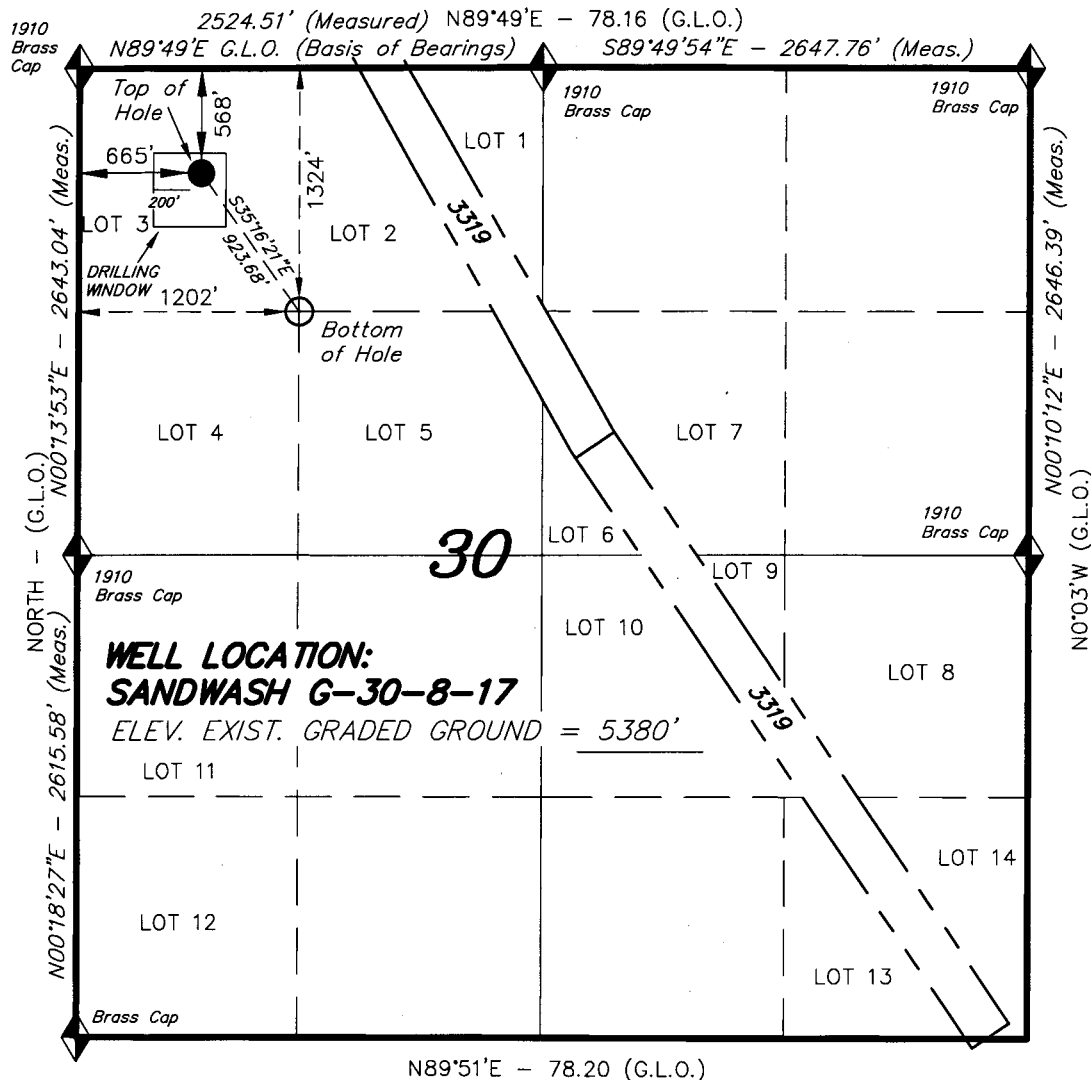
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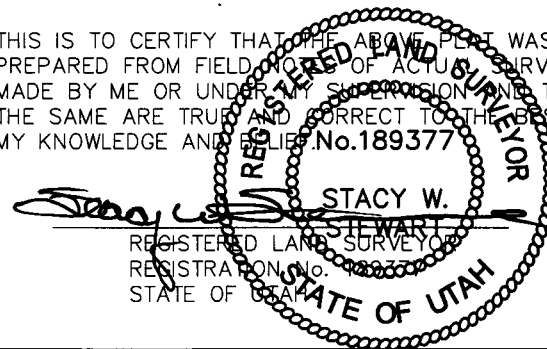
# T8S, R17E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, SANDWASH G-30-8-17,  
LOCATED AS SHOWN IN THE NW 1/4 NW  
1/4 (LOT 3) OF SECTION 30, T8S, R17E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 08-24-07	SURVEYED BY: T.H.
DATE DRAWN: 09-17-07	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

SANDWASH G-30-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 05' 40.52"  
LONGITUDE = 110° 03' 21.45"

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/20/2007

API NO. ASSIGNED: 43-013-33817

WELL NAME: SAND WASH FED G-30-8-17

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNW 30 080S 170E

SURFACE: 0568 FNL 0665 FWL

BOTTOM: 1324 FNL 1202 FWL

COUNTY: DUCHESNE

LATITUDE: 40.09458 LONGITUDE: -110.0552

UTM SURF EASTINGS: 580540 NORTHINGS: 4438472

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-74869

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000493 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-10136 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

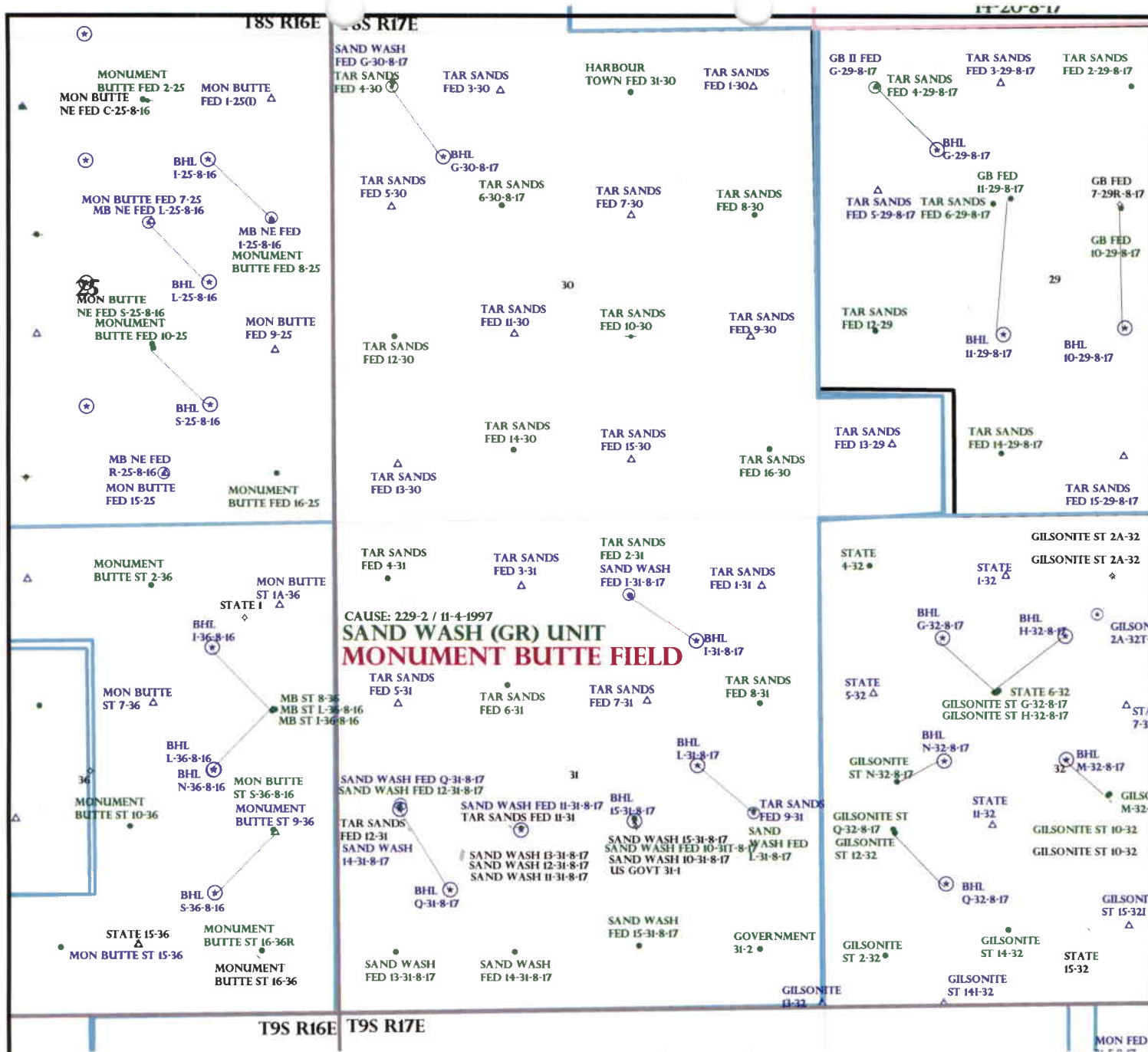
\_\_\_ R649-2-3.  
Unit: SAND WASH (GRRV)  
\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 229-2  
Eff Date: 11-4-1997  
Siting: Suspended General Siting  
☒ R649-3-11. Directional Drill

COMMENTS:

*See Separate File*

STIPULATIONS:

*1- Federal Approval*



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 30,31 T.8S R. 17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 229-2 / 11-4-1997

**Field Status**

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**Unit Status**

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



PREPARED BY: DIANA MASON  
 DATE: 29-NOVEMBER-2007

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

November 29, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Sand Wash Unit,  
Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Sand Wash Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33817	Sand Wash Fed G-30-8-17	Sec 30 T08S R17E 0568 FNL 0665 FWL BHL Sec 30 T08S R17E 1324 FNL 1202 FWL
43-013-33818	Sand Wash Fed I-31-8-17	Sec 31 T08S R17E 0805 FNL 2032 FEL BHL Sec 31 T08S R17E 1322 FNL 1320 FEL
43-013-33819	Sand Wash Fed Q-31-8-17	Sec 31 T08S R17E 2252 FSL 0682 FWL BHL Sec 31 T08S R17E 1323 FSL 1207 FWL

We have no objections to permitting the well so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Sand Wash Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:11-29-07



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

November 29, 2007

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Sand Wash Federal G-30-8-17 Well, Surface Location 568' FNL, 665' FWL, NW NW, Sec. 30, T. 8 South, R. 17 East, Bottom Location 1324' FNL, 1202' FWL, NW NW, Sec. 30, T. 8 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33817.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office



Operator: Newfield Production Company  
Well Name & Number Sand Wash Federal G-30-8-17  
API Number: 43-013-33817  
Lease: UTU-74869

Surface Location: NW NW Sec. 30 T. 8 South R. 17 East  
Bottom Location: NW NW Sec. 30 T. 8 South R. 17 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

NOV 20 2007

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

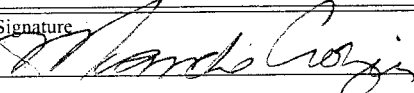
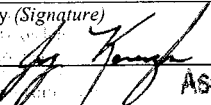
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-74869
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Sand Wash Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Sand Wash Federal G-30-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43 013 33817
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NW/4 (Lot #3) 568' FNL 665' FWL At proposed prod. zone 1447' FNL 1342' FWL		10. Field and Pool, or Exploratory Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 30, T8S R17E		12. County or Parish Duchesne
13. State UT		14. Distance in miles and direction from nearest town or post office* Approximately 8.8 miles south of Myton, Utah
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1342' f/lse, 1342' f/unit	16. No. of Acres in lease 1177.07	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1324'	19. Proposed Depth 6550'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5380' GL	22. Approximate date work will start* 1st Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 2/14/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Terry Kessler	AUG 21 2008
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

RECEIVED

AUG 25 2008

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Newfield Production Company  
**Well No:** Sand Wash Federal G-30-8-17  
**API No:** 43-013-33817

**Location:** NWNW Sec 30, T8S, R17E  
**Lease No:** UTU-74869  
**Agreement:** Sand Wash Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days

***SURFACE USE PROGRAM***  
**CONDITIONS OF APPROVAL (COAs)**

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Specific Surface COAs**

**STIPULATIONS:**

- The proposed area contains Mountain plover habitat. With this occurrence there will be a timing restriction during project activity (construction and drilling) to minimize disturbance to Mountain plover nesting from May 15 – June 15.

**Lease Notices (field review and RMP):**

- Lessee/operator is given notice the area has been identified as containing Golden Eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden Eagle and/or its habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- Lessee/operator is given notice the area has been identified as containing Ferruginous Hawk habitat. Modifications may be required in the Surface Use Plan to protect the Ferruginous Hawk and/or its habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- Lessee/operator is given notice the area has been identified as containing Burrowing Owl habitat. Modifications may be required in the Surface Use Plan to protect the Burrowing Owl and/or its habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- Lessee/operator is given notice the area has been identified as containing Mountain Plover habitat. Modifications may be required in the Surface Use Plan to protect the Mountain Plover and/or its habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

**Comments:**

If it is anticipated that construction or drilling will occur during the given timing restrictions for any wildlife, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted (depending on the species being surveyed and the condition of the habitat).

**Follow-up Actions and/or Recommendations:**

**Please be aware that this Special Status Species wildlife clearance is effective for 1 year**

**from the date of the onsite date. Any proposals submitted after the date of the onsite should require additional surveys and clearances.**

Based on the previous field exam and existing data, and if all timing restrictions are adhered to then, it is my opinion that a no effect situation exists for Special Status Wildlife Species with the construction and drilling of this proposed drill site. Therefore, this site is cleared from a Special Status Wildlife Species perspective.

#### CONDITIONS OF APPROVAL:

- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed immediately upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.

- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, a detailed Interim and Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. If Reclamation Plan is acceptable, the AO will provide written approval or concurrence within 30 calendar days of receipt.

#### Interim Reclamation:

- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded using a rangeland drill. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 1st until snow or ground is frozen) with the following seed mix:

Seed mix:

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	1/4 - 1/2"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	1/2"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	1/2"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	1/2"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	1/2"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	1/8 - 1/4"
Forage Kochia	<i>Kochia prostrata</i>	0.10	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

#### Final reclamation:

- Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.

- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- None

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the

well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core

data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

(June 1990)

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-74869**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**SAND WASH (GR RVR)**

8. Well Name and No.

**SAND WASH FEDERAL G-30-8-17**

9. API Well No.

**43-013-33817**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.****SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well    ☐ Gas Well    ☐ Other

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**568 FNL 665 FWL NW/NW Section 30, T8S R17E**12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA****TYPE OF SUBMISSION**

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 10/30/08By: [Signature]

COPY SENT TO OPERATOR

Date: 10.30.2008Initials: KS

14. I hereby certify that the foregoing is true and correct

Signed

Mandie Crozier

Title

Regulatory Specialist

Date

10/27/2008

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RECEIVED****OCT 29 2008****DIV. OF OIL, GAS & MINING**

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-33817  
**Well Name:** Sand Wash Federal G-30-8-17  
**Location:** NW/NW Section 30, T8S R17E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 11/29/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

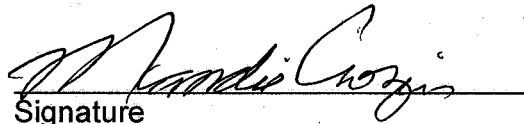
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

10/27/2008

Date

**Title:** Regulatory Specialist

**Representing:** Newfield Production Company

RECEIVED

OCT 29 2008

DIV. OF OIL, GAS & MINING

*Spud*  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross Rig #  
21 Submitted By Don Bastian  
Phone Number 435-823-6012  
Well Name/Number Sand Wash Federal G-30-8-17  
Qtr/Qtr NW/NW Section 30 Township 8S Range  
17E  
Lease Serial Number UTU-  
74869  
API Number 43-013-  
33817

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

☒ Date/Time 1/13/09 3:00 AM ☐ PM

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 1/14/09 10:00 AM ☒ PM ☐

BOPE

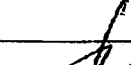
- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_ \_ AM ☐ PM ☐

Remarks Will Send Actual Spud Time

---

OPERATOR ACCT. NO. N2695

Signature  Jentri Park

Production Clerk 01/02/09

Date

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
568 FNL 665 FWL  
NWNW Section 30 T8S R17E

5. Lease Serial No.

USA UTU-74869

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
SAND WASH UNIT

8. Well Name and No.  
SAND WASH FEDERAL G-30-8-17

9. API Well No.  
4301333817

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/13/09 MIRU Ross Rig # 21. Spud well @ 3:00 PM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 316.03 KB On 1/19/09 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeld. Returned 9 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

Title

Drilling Foreman

Date

01/20/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**FEB 02 2009**

**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 316.03

LAST CASING 8 5/8" SET AT 316.03  
 DATUM 12 KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 310' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Sand Wash Fed G-30-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 21

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1		WHI - 92 csg head			8rd	A	0.95
8	8 5/8"	Maverick ST&C csg (shoe joint 38.02')	24#	J-55	8rd	A	304.18
1		Guide shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			306.03
TOTAL LENGTH OF STRING		306.03	8	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>316.03</b> KB
TOTAL		304.18	8	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		304.18	8				
TIMING		1ST STAGE					
Spud		1/13/2009	3:00 PM	GOOD CIRC THRU JOB <u>Yes</u>			
CSG. IN HOLE		1/14/2009	10:00 AM	Bbls CMT CIRC TO SURFACE <u>9</u>			
BEGIN CIRC		1/19/2009	8:20 AM	RECIPROCATED PIPE FOR <u>N/A</u>			
BEGIN PUMP CMT		1/19/2009	8:44 AM				
BEGIN DSPL. CMT		1/19/2009	8:58 AM	BUMPED PLUG TO <u>140</u>			
PLUG DOWN		1/19/2009	9:07 AM				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Centralizers - Middle first, top second & third for 3		

COMPANY REPRESENTATIVE Alvin Nielsen DATE 1/19/2009

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

568 FNL 665 FWL

NWNW Section 30 T8S R17E

5. Lease Serial No.

USA UTU-74869

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

SAND WASH UNIT

8. Well Name and No.

SAND WASH FEDERAL G-30-8-17

9. API Well No.

4301333817

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/23/09 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 278'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,650' & a TVD of 6535'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 165 jt's of 5.5 J-55, 15.5# csgn. Set @ 6649.55' / KB. Cement with 325 sks cement mixed @ 11.0 ppg & 3.49 yld. Then 475 sks cement mixed @ 14.4 ppg & 1.24 yld. With 67 bbls cement returned to pit. Nipple down Bop's. Drop slips @90,000 #'s tension. Release rig 7:30 AM 1/29/09.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

Title

Drilling Foreman

Date

01/29/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or a State any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**FEB 05 2009**

**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2"	CASING SET AT	6649.55
--------	---------------	---------

LAST CASING	<u>8 5/8"</u>	SET AT	<u>316.03</u>
DATUM	<u>12</u>		
DATUM TO CUT OFF CASING		<u>12</u>	
DATUM TO BRADENHEAD FLANGE			<u>12</u>
TD DRILLER	<u>6650</u>	LOGC	<u>6652</u>
HOLE SIZE	<u>7 7/8"</u>		

OPERATOR Newfield Exploration Company  
WELL SAND WASH G-30-8-17  
FIELD/PROSPECT Monument Butte  
CONTRACTOR & RIG # ND SI # 2

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1	5 1/2"	Landing jt LT&C		15.50	J-55	LTC	A	14
165	5 1/2"	LT&C Casing		15.50	J-55	LTC	A	6619.8
1	5 1/2"	Float collar					A	0.6
1	5 1/2"	LT&C Casing		15.50	J-55	LTC	A	16.5
1	5 1/2"	Guide Shoe					A	0.65
						</		

[illegible]

COMPANY REPRESENTATIVE Alvin Nielsen DATE 1/29/2009

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-74869
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: SAND WASH UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 568 FNL 665 FWL		8. WELL NAME and NUMBER: SAND WASH FEDERAL G-30-8-17
OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW, 30, T8S, R17E		9. API NUMBER: 4301333817
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  05/08/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** Clearly show all pertinent details including dates, depths, volumes, etc.

Status report for time period 03-06-09/03-18-09

Subject well had completion procedures initiated in the Green River formation on 03-09-09 without the use of a service rig over the well. A cement bond log was run and a total of four Green River intervals were perforated and hydraulically fracture treated w/ 20/40 mesh sand. Perf intervals were #1 (6224'-6234')(All JSPF); #2 (6076'-6090')(ALL 4 JSPF); #3 (5499'-5508')(ALL 4 JSPF); #4 (4665'-4669'), (4687'-4691'), (4712'-4717'), (4722'-4730')(ALL 4 JSPF). Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved on well on 03-13-09. Bridge plugs were drilled out. Well was cleaned out to PBTD @ 6632'. Zones were swab tested for sand cleanup. A BHA & production tbg string were run in and anchored in well. End of tubing string @ 6307. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 03-18-09.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Tech

SIGNATURE

DATE 05/08/2009

(This space for State use only)

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**MAY 12 2009**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. UTU-74869							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____		6. If Indian, Allottee or Tribe Name NA							
2. Name of Operator NEWFIELD EXPLORATION COMPANY		7. Unit or CA Agreement Name and No. SAND WASH							
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202		8. Lease Name and Well No. SANDWASH FEDERAL G-30-8-17							
3a. Phone No. (include area code) (435)646-3721		9. AFI Well No. 43-013-33817							
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface 568' FNL & 665' FWL (NW/NW) SEC. 30, T8S, R17E  At top prod. interval reported below BHL: 1324' FNL & 1202' FWL (NW/NW)  At total depth <del>6650'</del> 1453 fml 1329 fwl per HSM review		10. Field and Pool or Exploratory MONUMENT BUTTE							
14. Date Spudded 01/13/2009		11. Sec., T., R., M., on Block and Survey or Area SEC. 30, T8S, R17E							
15. Date T.D. Reached 01/28/2009		12. County or Parish DUCHESNE							
16. Date Completed 03/17/2009 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		13. State UT							
18. Total Depth: MD 6650' TVD 6532' 40		17. Elevations (DF, RKB, RT, GL)* 5066' GL 5078' KB							
19. Plug Back T.D.: MD 6632' TVD 6522		20. Depth Bridge Plug Set: MD TVD							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)							
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		316'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		6650'		325 PRIMLITE		22'	
						475 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 6307'	TA @ 6212'							
25. Producing Intervals									
Formation		Top		Bottom		Perforated Interval		Perf. Status	
A) GREEN RIVER						(CP3) 6224-34'		49" 4 40	
B) GREEN RIVER						(CP.5) 6076-90'		49" 4 56	
C) GREEN RIVER						(B1) 5499-5508'		49" 4 36	
D) GREEN RIVER						(GB4,GB6) see below		49" 4 84	
26. Perforation Record 49/45									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
6224-6234'		Frac w/ 15304# of 20/40 sand 325 bbls fluid							
6076-6090'		Frac w/ 75800# 20/40 sand 633 bbls fluid							
5499-5508'		Frac w/ 34800# 20/40 sand 504 bbls fluid							
4665-4730'		Frac w/ 96052# 20/40 sand 780 bbls fluid							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/18/09	03/30/09	24	→	61	89	75			2-1/2" x 1-3/4" x 16' x 20' RHAC Rod Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status PRODUCING	
			→						
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	4146' 4350'
				GARDEN GULCH 2 POINT 3	4475' 4767'
				X MRKR Y MRKR	5003' 5036'
				DOUGALS CREEK MRK BI CARBONATE MRK	5163' 5421'
				B LIMESTON MRK CASTLE PEAK	5563' 6051'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6489' 6652'

## 32. Additional remarks (include plugging procedure):

(GB4) 4665-4669', 4687-4691' (GB6) 4712-4717', 4722-4730'

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Tammi LeeTitle Production ClerkSignature Date 03/31/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



**Scientific  
Drilling**

## Directional Survey Certification

7327 West Barton Road  
Casper, WY 82604  
(307)-472-6621 Fax (307) 472-5439

Operator	Newfield Exploration Co.
Well Name & No.	Sand Wash G-30-8-17
County & State	Duchesne County, UT
SDI Job No.	42DEF0901053
Rig	NDSI 2

I, Julie Cruse, having personal knowledge of all the facts, hereby  
certify that the attached directional survey run from a measured depth of 353 feet to a  
measured depth of 6645 feet is true and correct as determined from all available records.

Julie Cruse  
Signature

30-Jan-09  
Date

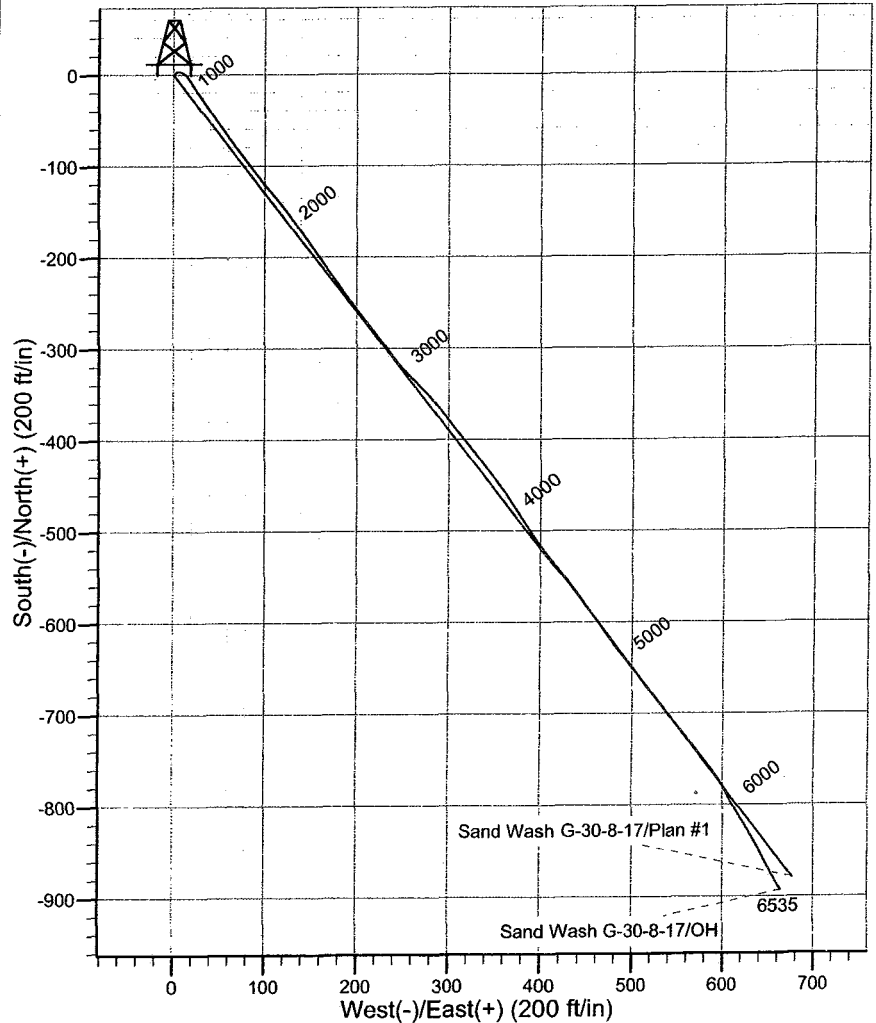
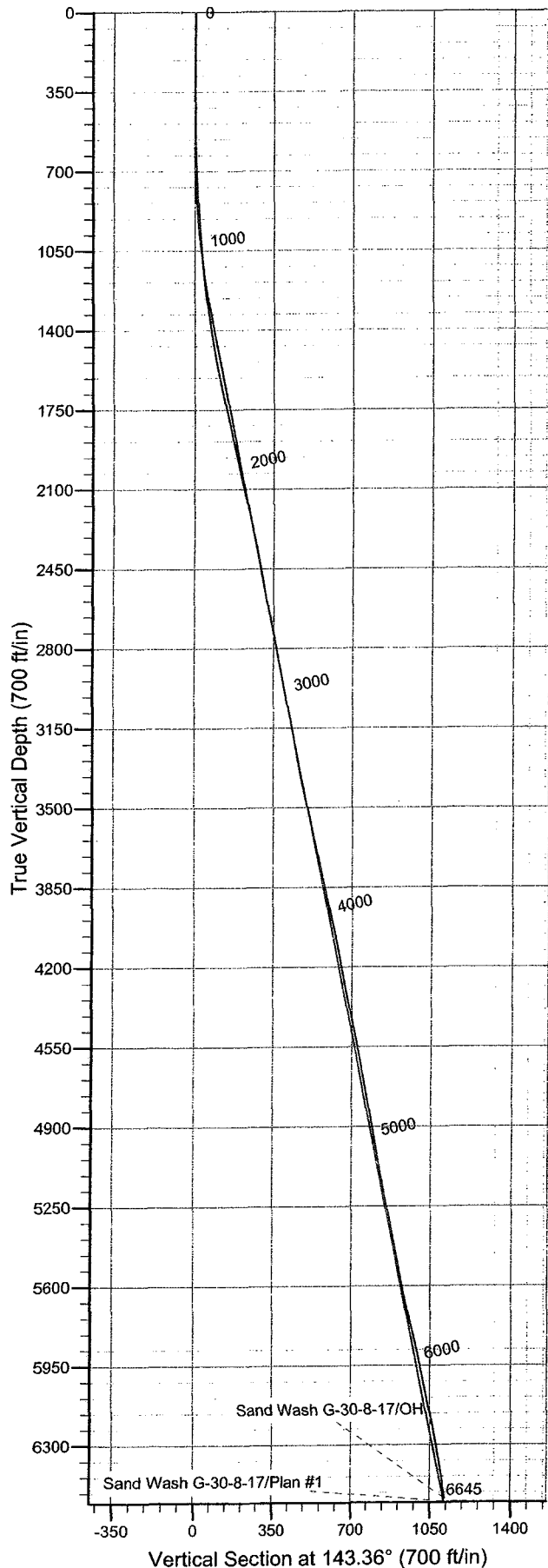
**Julie Cruse**  
Rockies Region Engineer  
Scientific Drilling - Rocky Mountain District



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC  
Site: Sandwash  
Well: Sand Wash G-30-8-17  
Wellbore: OH  
Design: OH

**Newfield Exploration Co.**



#### WELL DETAILS: Sand Wash G-30-8-17

Ground Level: GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
+N/-S +E/-W Northing Easting Latitude Longitude  
0.00 0.00 7206453.45 2044374.75 40° 5' 40.520 N 110° 3' 21.450 W

#### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Sand Wash G-30-8-17, True North  
Vertical (TVD) Reference: GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
Calculation Method: Minimum Curvature  
Local North: True  
Location:

#### OBJECT DETAILS: Duchesne County, UT NAD83 UTC

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

#### Design: OH (Sand Wash G-30-8-17/OH)

Created By: Gregg Detweiler Date: 2009-01-30



**Scientific Drilling**  
Rocky Mountain Operations

## **Newfield Exploration Co.**

Duchesne County, UT NAD83 UTC

Sandwash

Sand Wash G-30-8-17

OH

Design: OH

## **Standard Survey Report**

30 January, 2009



# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Sandwash  
**Well:** Sand Wash G-30-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Sand Wash G-30-8-17  
**TVD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**MD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User DB

<b>Project</b>	Duchesne County, UT NAD83 UTC
<b>Map System:</b>	US State Plane 1983
<b>Geo Datum:</b>	North American Datum 1983
<b>Map Zone:</b>	Utah Central Zone
<b>System Datum:</b>	Mean Sea Level

Site	Sandwash,				
Site Position:		Northing:	7,206,453.46ft	Latitude:	40° 5' 40.520 N
From:	Lat/Long	Easting:	2,044,374.75ft	Longitude:	110° 3' 21.450 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.93 °

Well	Sand Wash G-30-8-17, 568' FNL & 665' FWL Sec 30 T8S R17E					
Well Position	+N/-S	0.00 ft	Northing:	7,206,453.45 ft	Latitude:	40° 5' 40.520 N
	+E/-W	0.00 ft	Easting:	2,044,374.75 ft	Longitude:	110° 3' 21.450 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,380.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2009-01-21	11.61	65.91	52,564

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	143.36	

<b>Survey Program</b>	Date 2009-01-30				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
353.00	6,645.00	Survey #1 7 7/8" Hole (OH)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
353.00	0.89	41.44	352.99	2.06	1.81	-0.57	0.25	0.25	0.00
<b>First MWD Survey</b>									
383.00	0.86	34.20	382.98	2.42	2.10	-0.69	0.38	-0.10	-24.13
414.00	1.15	53.36	413.98	2.79	2.48	-0.76	1.42	0.94	61.81
446.00	1.28	62.01	445.97	3.15	3.05	-0.71	0.70	0.41	27.03
476.00	1.35	76.28	475.96	3.39	3.69	-0.52	1.11	0.23	47.57
507.00	1.69	83.91	506.95	3.53	4.50	-0.15	1.27	1.10	24.61
538.00	1.93	94.36	537.94	3.54	5.47	0.43	1.31	0.77	33.71
569.00	1.83	103.64	568.92	3.38	6.47	1.15	1.03	-0.32	29.94
599.00	2.39	106.86	598.90	3.09	7.54	2.02	1.91	1.87	10.73
630.00	2.55	111.79	629.87	2.64	8.80	3.13	0.86	0.52	15.90
660.00	2.66	116.78	659.84	2.08	10.04	4.32	0.84	0.37	16.63



# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Sandwash  
**Well:** Sand Wash G-30-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Sand Wash G-30-8-17  
**TVD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**MD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User DB

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
691.00	2.93	124.94	690.80	1.31	11.33	5.71	1.55	0.87	26.32
722.00	2.97	130.71	721.76	0.33	12.59	7.25	0.97	0.13	18.61
752.00	2.86	133.11	751.72	-0.69	13.72	8.74	0.55	-0.37	8.00
783.00	2.92	137.39	782.68	-1.80	14.82	10.29	0.72	0.19	13.81
814.00	2.97	142.88	813.64	-3.02	15.84	11.88	0.92	0.16	17.71
844.00	3.05	145.93	843.60	-4.30	16.76	13.45	0.60	0.27	10.17
875.00	3.28	149.47	874.55	-5.75	17.67	15.16	0.97	0.74	11.42
906.00	3.57	151.19	905.50	-7.36	18.59	17.00	0.99	0.94	5.55
937.00	3.96	144.79	936.43	-9.08	19.67	19.02	1.85	1.26	-20.65
969.00	4.18	148.13	968.35	-10.97	20.92	21.29	1.01	0.69	10.44
1,001.00	4.59	145.99	1,000.26	-13.02	22.25	23.73	1.38	1.28	-6.69
1,032.00	4.96	144.38	1,031.15	-15.14	23.73	26.31	1.27	1.19	-5.19
1,064.00	5.41	147.26	1,063.02	-17.54	25.35	29.20	1.62	1.41	9.00
1,096.00	5.54	144.64	1,094.87	-20.06	27.06	32.25	0.88	0.41	-8.19
1,128.00	5.68	146.64	1,126.72	-22.65	28.82	35.37	0.75	0.44	6.25
1,159.00	5.97	146.68	1,157.56	-25.28	30.55	38.51	0.94	0.94	0.13
1,191.00	6.16	146.11	1,189.38	-28.09	32.42	41.89	0.62	0.59	-1.78
1,223.00	6.82	148.08	1,221.18	-31.13	34.39	45.50	2.18	2.06	6.16
1,254.00	7.14	145.34	1,251.95	-34.28	36.46	49.26	1.49	1.03	-8.84
1,286.00	7.58	143.22	1,283.68	-37.60	38.85	53.36	1.62	1.37	-6.62
1,317.00	8.06	143.96	1,314.39	-41.00	41.35	57.57	1.58	1.55	2.39
1,349.00	8.48	145.21	1,346.06	-44.75	44.02	62.18	1.43	1.31	3.91
1,381.00	8.81	146.79	1,377.70	-48.74	46.71	66.98	1.27	1.03	4.94
1,412.00	9.28	146.13	1,408.31	-52.80	49.40	71.85	1.55	1.52	-2.13
1,444.00	9.72	144.48	1,439.87	-57.14	52.41	77.13	1.62	1.37	-5.16
1,476.00	9.93	145.07	1,471.40	-61.60	55.56	82.58	0.73	0.66	1.84
1,508.00	10.34	145.30	1,502.90	-66.22	58.77	88.21	1.29	1.28	0.72
1,539.00	10.91	144.07	1,533.37	-70.89	62.08	93.93	1.98	1.84	-3.97
1,571.00	11.10	143.12	1,564.78	-75.80	65.70	100.03	0.82	0.59	-2.97
1,603.00	11.33	142.63	1,596.17	-80.76	69.46	106.26	0.78	0.72	-1.53
1,635.00	11.74	141.19	1,627.53	-85.80	73.41	112.65	1.57	1.28	-4.50
1,666.00	12.04	142.87	1,657.86	-90.83	77.34	119.04	1.48	0.97	5.42
1,698.00	12.25	142.23	1,689.15	-96.18	81.43	125.77	0.78	0.66	-2.00
1,728.00	12.16	142.21	1,718.47	-101.19	85.32	132.11	0.30	-0.30	-0.07
1,762.00	12.31	143.55	1,751.69	-106.94	89.66	139.32	0.94	0.44	3.94
1,793.00	12.60	143.13	1,781.97	-112.30	93.65	146.00	0.98	0.94	-1.35
1,825.00	12.79	141.26	1,813.18	-117.86	97.97	153.03	1.41	0.59	-5.84
1,857.00	12.71	141.11	1,844.39	-123.36	102.39	160.09	0.27	-0.25	-0.47
1,888.00	12.93	140.17	1,874.62	-128.68	106.75	166.96	0.98	0.71	-3.03
1,920.00	12.86	140.67	1,905.81	-134.18	111.31	174.09	0.41	-0.22	1.56
1,952.00	13.12	139.95	1,937.00	-139.71	115.90	181.27	0.96	0.81	-2.25
1,984.00	13.03	141.86	1,968.17	-145.33	120.46	188.51	1.38	-0.28	5.97
2,015.00	13.33	141.69	1,998.35	-150.88	124.84	195.57	0.98	0.97	-0.55
2,047.00	13.46	143.50	2,029.48	-156.77	129.34	202.98	1.37	0.41	5.66
2,079.00	13.33	144.75	2,060.61	-162.78	133.68	210.39	0.99	-0.41	3.91
2,111.00	13.17	143.87	2,091.76	-168.74	137.96	217.73	0.80	-0.50	-2.75
2,142.00	13.17	145.07	2,121.94	-174.48	142.07	224.79	0.88	0.00	3.87
2,174.00	13.17	145.73	2,153.10	-180.49	146.21	232.08	0.47	0.00	2.06
2,206.00	12.60	146.17	2,184.29	-186.40	150.20	239.20	1.81	-1.78	1.37
2,237.00	12.46	145.90	2,214.56	-191.98	153.96	245.92	0.49	-0.45	-0.87
2,269.00	12.08	145.97	2,245.82	-197.61	157.77	252.72	1.19	-1.19	0.22
2,301.00	11.85	146.86	2,277.13	-203.13	161.44	259.34	0.92	-0.72	2.78
2,332.00	11.94	145.49	2,307.46	-208.44	165.00	265.72	0.96	0.29	-4.42
2,364.00	11.90	144.84	2,338.77	-213.87	168.77	272.33	0.44	-0.12	-2.03



# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Sandwash  
**Well:** Sand Wash G-30-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Sand Wash G-30-8-17  
**TVD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**MD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User DB

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,396.00	11.69	144.82	2,370.10	-219.21	172.54	278.87	0.66	-0.66	-0.06
2,427.00	11.35	145.63	2,400.47	-224.30	176.07	285.05	1.21	-1.10	2.61
2,459.00	10.90	145.35	2,431.87	-229.39	179.57	291.22	1.42	-1.41	-0.87
2,491.00	10.84	145.24	2,463.30	-234.35	183.00	297.26	0.20	-0.19	-0.34
2,523.00	10.80	143.63	2,494.73	-239.23	186.50	303.26	0.95	-0.12	-5.03
2,554.00	10.78	144.14	2,525.18	-243.92	189.92	309.06	0.31	-0.06	1.65
2,586.00	10.58	141.67	2,556.63	-248.65	193.49	314.99	1.56	-0.62	-7.72
2,618.00	10.37	143.22	2,588.09	-253.26	197.04	320.81	1.10	-0.66	4.84
2,649.00	10.56	143.61	2,618.58	-257.79	200.40	326.44	0.65	0.61	1.26
2,681.00	10.94	142.76	2,650.02	-262.56	203.97	332.41	1.29	1.19	-2.66
2,713.00	11.26	143.00	2,681.42	-267.48	207.69	338.57	1.01	1.00	0.75
2,745.00	11.25	141.42	2,712.80	-272.41	211.52	344.81	0.96	-0.03	-4.94
2,776.00	11.64	140.30	2,743.19	-277.18	215.40	350.96	1.45	1.26	-3.61
2,808.00	11.74	142.46	2,774.52	-282.25	219.45	357.44	1.40	0.31	6.75
2,840.00	11.74	142.39	2,805.85	-287.41	223.42	363.95	0.04	0.00	-0.22
2,871.00	11.39	143.13	2,836.22	-292.35	227.18	370.16	1.23	-1.13	2.39
2,903.00	11.43	144.02	2,867.59	-297.45	230.94	376.49	0.56	0.12	2.78
2,935.00	11.65	144.87	2,898.94	-302.66	234.66	382.89	0.87	0.69	2.66
2,967.00	11.71	142.76	2,930.28	-307.88	238.48	389.37	1.35	0.19	-6.59
2,998.00	11.38	140.96	2,960.65	-312.76	242.31	395.57	1.58	-1.06	-5.81
3,028.00	11.31	140.66	2,990.07	-317.34	246.04	401.47	0.31	-0.23	-1.00
3,061.00	11.11	138.53	3,022.44	-322.22	250.20	407.87	1.39	-0.61	-6.45
3,093.00	11.00	136.51	3,053.85	-326.75	254.34	413.97	1.26	-0.34	-6.31
3,125.00	10.85	135.36	3,085.27	-331.11	258.56	419.98	0.83	-0.47	-3.59
3,156.00	10.56	136.18	3,115.73	-335.23	262.58	425.69	1.06	-0.94	2.65
3,188.00	10.41	135.79	3,147.19	-339.42	266.62	431.47	0.52	-0.47	-1.22
3,220.00	10.57	135.01	3,178.66	-343.57	270.71	437.24	0.67	0.50	-2.44
3,251.00	10.89	137.27	3,209.11	-347.73	274.71	442.96	1.71	1.03	7.29
3,283.00	10.83	137.59	3,240.54	-352.17	278.79	448.96	0.27	-0.19	1.00
3,314.00	11.03	140.31	3,270.98	-356.60	282.65	454.82	1.78	0.65	8.77
3,346.00	11.00	141.86	3,302.39	-361.36	286.49	460.93	0.93	-0.09	4.84
3,378.00	11.09	141.14	3,333.80	-366.16	290.30	467.05	0.51	0.28	-2.25
3,410.00	11.81	142.98	3,365.16	-371.17	294.21	473.40	2.52	2.25	5.75
3,441.00	12.39	141.82	3,395.47	-376.31	298.17	479.90	2.03	1.87	-3.74
3,473.00	12.13	141.94	3,426.74	-381.66	302.37	486.69	0.82	-0.81	0.37
3,505.00	12.02	142.71	3,458.03	-386.96	306.46	493.39	0.61	-0.34	2.41
3,536.00	11.51	140.03	3,488.38	-391.90	310.40	499.70	2.41	-1.65	-8.65
3,568.00	11.50	140.46	3,519.74	-396.80	314.48	506.07	0.27	-0.03	1.34
3,600.00	11.82	142.36	3,551.08	-401.86	318.52	512.54	1.56	1.00	5.94
3,632.00	12.20	140.61	3,582.38	-407.07	322.66	519.19	1.64	1.19	-5.47
3,663.00	12.50	143.42	3,612.66	-412.29	326.74	525.82	2.17	0.97	9.06
3,695.00	12.69	143.16	3,643.89	-417.89	330.91	532.80	0.62	0.59	-0.81
3,727.00	12.71	141.20	3,675.11	-423.44	335.23	539.83	1.35	0.06	-6.12
3,758.00	12.56	141.93	3,705.36	-428.75	339.44	546.61	0.71	-0.48	2.35
3,790.00	12.68	142.07	3,736.59	-434.26	343.74	553.60	0.39	0.37	0.44
3,822.00	12.73	142.97	3,767.80	-439.85	348.03	560.63	0.64	0.16	2.81
3,854.00	12.47	143.56	3,799.03	-445.44	352.20	567.61	0.91	-0.81	1.84
3,885.00	12.57	142.91	3,829.29	-450.83	356.22	574.33	0.56	0.32	-2.10
3,917.00	12.35	144.24	3,860.54	-456.38	360.32	581.24	1.13	-0.69	4.16
3,949.00	12.59	145.79	3,891.79	-462.04	364.29	588.14	1.29	0.75	4.84
3,980.00	12.52	146.17	3,922.04	-467.63	368.06	594.87	0.35	-0.23	1.23
4,012.00	12.56	148.07	3,953.28	-473.46	371.83	601.81	1.30	0.12	5.94
4,043.00	12.43	146.78	3,983.55	-479.11	375.44	608.50	0.99	-0.42	-4.16
4,075.00	12.34	148.07	4,014.80	-484.90	379.13	615.34	0.91	-0.28	4.03



# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Sandwash  
**Well:** Sand Wash G-30-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Sand Wash G-30-8-17  
**TVD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**MD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User DB

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,106.00	11.92	146.16	4,045.11	-490.37	382.67	621.84	1.87	-1.35	-6.16
4,138.00	11.55	147.59	4,076.44	-495.82	386.22	628.34	1.47	-1.16	4.47
4,170.00	11.47	147.78	4,107.80	-501.21	389.64	634.70	0.28	-0.25	0.59
4,202.00	11.36	146.62	4,139.16	-506.54	393.07	641.02	0.80	-0.34	-3.62
4,233.00	11.11	145.82	4,169.57	-511.56	396.43	647.05	0.95	-0.81	-2.58
4,265.00	11.13	145.05	4,200.97	-516.64	399.93	653.22	0.47	0.06	-2.41
4,297.00	11.24	143.73	4,232.36	-521.68	403.54	659.43	0.87	0.34	-4.12
4,328.00	11.02	142.78	4,262.78	-526.48	407.12	665.41	0.92	-0.71	-3.06
4,360.00	10.98	143.90	4,294.19	-531.38	410.77	671.52	0.68	-0.12	3.50
4,392.00	11.42	144.08	4,325.58	-536.40	414.42	677.73	1.38	1.37	0.56
4,423.00	11.42	144.08	4,355.97	-541.38	418.02	683.87	0.00	0.00	0.00
4,459.00	11.44	143.18	4,391.25	-547.12	422.25	691.00	0.50	0.06	-2.50
4,487.00	11.54	142.87	4,418.69	-551.58	425.61	696.58	0.42	0.36	-1.11
4,519.00	11.67	142.74	4,450.04	-556.70	429.50	703.02	0.41	0.41	-0.41
4,550.00	11.74	143.01	4,480.39	-561.72	433.29	709.31	0.29	0.23	0.87
4,582.00	11.68	142.92	4,511.73	-566.90	437.21	715.80	0.20	-0.19	-0.28
4,614.00	11.57	142.64	4,543.07	-572.04	441.11	722.25	0.39	-0.34	-0.87
4,646.00	11.53	143.45	4,574.42	-577.16	444.96	728.66	0.52	-0.12	2.53
4,677.00	11.54	143.26	4,604.80	-582.13	448.66	734.85	0.13	0.03	-0.61
4,709.00	11.53	144.08	4,636.15	-587.29	452.45	741.25	0.51	-0.03	2.56
4,741.00	11.47	144.75	4,667.51	-592.47	456.16	747.63	0.46	-0.19	2.09
4,772.00	11.45	144.87	4,697.89	-597.51	459.71	753.79	0.10	-0.06	0.39
4,804.00	11.18	144.79	4,729.27	-602.64	463.33	760.07	0.85	-0.84	-0.25
4,836.00	10.66	144.23	4,760.69	-607.58	466.85	766.13	1.66	-1.62	-1.75
4,867.00	10.31	144.37	4,791.17	-612.16	470.14	771.77	1.13	-1.13	0.45
4,899.00	9.83	143.04	4,822.68	-616.67	473.45	777.36	1.67	-1.50	-4.16
4,931.00	9.74	142.79	4,854.21	-621.01	476.73	782.80	0.31	-0.28	-0.78
4,962.00	9.86	142.21	4,884.76	-625.19	479.94	788.08	0.50	0.39	-1.87
4,994.00	10.04	140.89	4,916.28	-629.52	483.38	793.60	0.91	0.56	-4.12
5,026.00	9.91	140.23	4,947.80	-633.80	486.90	799.14	0.54	-0.41	-2.06
5,057.00	10.04	141.55	4,978.33	-637.97	490.29	804.50	0.85	0.42	4.26
5,089.00	10.14	141.12	5,009.83	-642.35	493.79	810.11	0.39	0.31	-1.34
5,121.00	10.41	141.36	5,041.32	-646.80	497.36	815.81	0.85	0.84	0.75
5,153.00	10.57	141.25	5,072.78	-651.34	501.00	821.63	0.50	0.50	-0.34
5,184.00	10.88	142.28	5,103.24	-655.88	504.57	827.40	1.18	1.00	3.32
5,216.00	10.77	142.63	5,134.67	-660.64	508.24	833.41	0.40	-0.34	1.09
5,248.00	10.95	142.73	5,166.10	-665.44	511.89	839.44	0.57	0.56	0.31
5,279.00	10.99	142.76	5,196.53	-670.13	515.46	845.33	0.13	0.13	0.10
5,310.00	11.28	143.30	5,226.95	-674.91	519.06	851.32	0.99	0.94	1.74
5,343.00	11.33	143.22	5,259.31	-680.10	522.93	857.79	0.16	0.15	-0.24
5,375.00	11.48	142.02	5,290.68	-685.13	526.77	864.12	0.88	0.47	-3.75
5,383.43	11.45	142.15	5,298.94	-686.45	527.80	865.79	0.50	-0.39	1.60
<b>SW G-30-8-17</b>									
5,406.00	11.36	142.52	5,321.06	-689.98	530.53	870.25	0.50	-0.39	1.62
5,438.00	11.19	141.84	5,352.45	-694.92	534.37	876.51	0.67	-0.53	-2.12
5,470.00	11.09	140.50	5,383.84	-699.74	538.24	882.69	0.87	-0.31	-4.19
5,501.00	11.16	141.05	5,414.26	-704.37	542.03	888.66	0.41	0.23	1.77
5,533.00	11.61	140.13	5,445.63	-709.25	546.04	894.97	1.52	1.41	-2.87
5,565.00	11.64	140.81	5,476.97	-714.23	550.14	901.41	0.44	0.09	2.12
5,597.00	11.61	140.54	5,508.32	-719.21	554.23	907.85	0.19	-0.09	-0.84
5,628.00	11.53	141.14	5,538.69	-724.03	558.15	914.06	0.47	-0.26	1.94
5,660.00	11.34	140.90	5,570.05	-728.97	562.14	920.40	0.61	-0.59	-0.75
5,692.00	11.44	141.73	5,601.42	-733.90	566.09	926.72	0.60	0.31	2.59
5,724.00	11.89	141.11	5,632.76	-738.96	570.13	933.18	1.46	1.41	-1.94
5,755.00	12.17	141.48	5,663.08	-744.00	574.17	939.64	0.94	0.90	1.19



# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Sandwash  
**Well:** Sand Wash G-30-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Sand Wash G-30-8-17  
**TVD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**MD Reference:** GL 5380' & RKB 12' @ 5392.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User DB

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,787.00	12.86	141.64	5,694.32	-749.43	578.48	946.57	2.16	2.16	0.50
5,819.00	12.90	142.67	5,725.52	-755.06	582.86	953.70	0.73	0.12	3.22
5,850.00	13.10	143.16	5,755.72	-760.63	587.06	960.68	0.74	0.65	1.58
5,882.00	13.61	144.33	5,786.86	-766.59	591.43	968.07	1.80	1.59	3.66
5,914.00	13.63	146.89	5,817.96	-772.80	595.69	975.60	1.88	0.06	8.00
5,946.00	13.26	148.28	5,849.08	-779.08	599.67	983.01	1.54	-1.16	4.34
5,977.00	13.05	151.47	5,879.27	-785.18	603.22	990.02	2.44	-0.68	10.29
6,009.00	12.24	151.69	5,910.49	-791.34	606.55	996.96	2.54	-2.53	0.69
6,041.00	11.78	152.99	5,941.79	-797.24	609.64	1,003.53	1.67	-1.44	4.06
6,073.00	11.21	152.16	5,973.15	-802.90	612.58	1,009.83	1.85	-1.78	-2.59
6,104.00	11.56	150.35	6,003.54	-808.27	615.52	1,015.89	1.61	1.13	-5.84
6,136.00	11.88	146.47	6,034.87	-813.80	618.93	1,022.36	2.66	1.00	-12.12
6,168.00	11.99	147.20	6,066.18	-819.34	622.55	1,028.96	0.58	0.34	2.28
6,199.00	12.00	148.41	6,096.50	-824.79	625.98	1,035.39	0.81	0.03	3.90
6,231.00	11.79	148.41	6,127.82	-830.41	629.43	1,041.96	0.66	-0.66	0.00
6,263.00	11.40	150.81	6,159.16	-835.95	632.69	1,048.35	1.94	-1.22	7.50
6,294.00	11.04	151.34	6,189.57	-841.23	635.61	1,054.33	1.21	-1.16	1.71
6,326.00	10.71	150.78	6,220.99	-846.52	638.53	1,060.31	1.08	-1.03	-1.75
6,358.00	10.55	150.33	6,252.45	-851.66	641.43	1,066.17	0.56	-0.50	-1.41
6,390.00	10.16	153.25	6,283.92	-856.72	644.15	1,071.85	2.04	-1.22	9.12
6,421.00	10.14	151.84	6,314.44	-861.57	646.67	1,077.25	0.80	-0.06	-4.55
6,453.00	9.65	153.64	6,345.96	-866.46	649.19	1,082.67	1.81	-1.53	5.62
6,485.00	9.39	152.21	6,377.52	-871.17	651.60	1,087.89	1.10	-0.81	-4.47
6,517.00	9.45	151.41	6,409.09	-875.78	654.07	1,093.07	0.45	0.19	-2.50
6,548.00	9.23	149.97	6,439.68	-880.17	656.53	1,098.06	1.04	-0.71	-4.65
6,579.00	9.10	148.53	6,470.28	-884.42	659.06	1,102.97	0.85	-0.42	-4.65
6,591.00	8.86	149.12	6,482.14	-886.02	660.03	1,104.84	2.14	-2.00	4.92
6,645.00	8.86	149.12	6,535.49	-893.16	664.30	1,113.11	0.00	0.00	0.00

### Projection to TD

### Targets

#### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
SW G-30-8-17	0.00	0.00	5,300.00	-681.99	525.00	7,205,780.02	2,044,910.69	40° 5' 33.780 N	110° 3' 14.694 W
- actual wellpath misses target center by 5.37ft at 5383.43ft MD (5298.94 TVD, -686.45 N, 527.80 E)									
- Circle (radius 75.00)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_